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PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Article 36 and Rule 70)

Applicant's or agent's file reference 484928	4000 See Notification of Iransmittal of International Prelimin		ransmittal of International Preliminary				
Examination Report (Form FC1/IPEA/410).							
International Application No.	International Filing Dat (day/month/year)	e P	riority Date (day/month/year)				
PCT/NZ2003/000125	19 June 2003	.] 1:	9 June 2002				
International Patent Classification (IPC) or i	d IPC						
Int. Cl. 7 C07K 14/35, A61K 39/04, A	61P 1/00						
Applicant							
ALAN MURRAY IN TRUST FO	OR MASSEY UNIVER	SITY AND INSTIT	UT PASTEUR et al				
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2. This REPORT consists of a total of 3	sheets, including this co	ver sheet.					
This report is also accompanied b	y ANNEXES, i.e., sheets	of the description cla	ims and/or drawings which have been				
aniended and are the basis for this	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total of	f sheet(s).						
3. This report contains indications relating	to the following items:						
I X Basis of the report	_						
II Priority							
III Non-establishment of opin	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
V X Reasoned statement under citations and explanations	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents cited	·						
VII Certain defects in the inter	mational application						
VIII Certain observations on the international application							
Date of submission of the demand							
15 January 2004		te of completion of the October 2004	report				
Name and mailing address of the IPEA/AU		thorized Officer	·				
AUSTRALIAN PATENT OFFICE							
PO BOX 200, WODEN ACT 2606, AUSTRALL/ E-mail address: pct@ipaustralia.gov.au		Lowd					
Facsimile No. (02) 6285 3929		N DOWD	1				
	آم ۱ ا	enhane No. (02) 6282	. 2222				

I.	Ba	sis of the report						
1.	With re	th regard to the elements of the international application:*						
	X ti	the international application as originally filed.						
	tl	ne description, pages, as originally filed,						
	•	pages, filed with the demand,						
		pages, received on with the letter of						
	tl	ne claims, pages, as originally filed,						
		pages, as amended (together with any statement) under Article 19,						
		pages, filed with the demand,						
		pages, received on with the letter of						
	L tł	ne drawings, pages, as originally filed,						
		pages, filed with the demand,						
		pages, received on with the letter of						
	∐ tł	ne sequence listing part of the description:						
		pages , as originally filed						
		pages , filed with the demand						
		pages, received on with the letter of						
2.	which the	ith regard to the language, all the elements marked above were available or furnished to this Authority in the language in the international application was filed, unless otherwise indicated under this item. ese elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).						
	=							
		the language of publication of the international application (under Rule 48.3(b)).						
		the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).						
3.		th regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international or or the basis of the sequence listing:						
	C	contained in the international application in written form.						
	fi fi	filed together with the international application in computer readable form.						
	fi fi	furnished subsequently to this Authority in written form.						
	fi	furnished subsequently to this Authority in computer readable form.						
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		the statement that the information recorded in computer readable form is identical to the written sequence listing has een furnished						
4.	Т	he amendments have resulted in the cancellation of:						
		the description, pages						
		the claims, Nos.						
	•	the drawings, sheets/fig.						
5.		his report has been established as if (some of) the amendments had not been made, since they have been considered to beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**						
*	Repla repor	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).						
**	Any re	Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report						

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations
	and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims 1-51	YES	
		Claims	NO	
	Inventive step (IS)	Claims 1-51	YES	
		Claims	NO	
	Industrial applicability (IA)	Claims 1-51	YES	
		Claims	NO	

2. Citations and explanations (Rule 70.7)

This report is based on the documents found in the International Search Report.

- D1 WO 1999 009186 A2 (INSTITUT PASTEUR) 25 February 1999
- D2 Cole ST et al "Massive gene decay in the leprosy bacillus"
 Nature 409, 1007-1011 (2001) 22 February 2001
- D3 WO 2000 039301 A2 (CORIXA CORPORATION) 6 July 2000
- D4 GenPept Accession No. AAK45720
- D5 GenPept Accession No.CAD94307

Novelty and Inventive Step

D1 - D5 disclose polypeptide sequences from Mycobacteria which are 75%, 71%, 64%, 75% and 75% (respectively) identical to sequence ID No. 1 of the application.

The application defines sequence ID No. 1 or at least 77% identical. Therefore novelty can be acknowledged. None of the citations source their sequence from *Mycobacterium avium* subspecies *paratuberculosis*, therefore inventive step can also be acknowledged.

Industrial Applicability

All claims satisfy the requirements of Article 33(4).